

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	6494	business adj rule	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:19
S2	6494	business adj rules	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:20
S3	0	business adj rules with source adj cod	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:20
S4	0	business adj rule same source adj cod	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:20
S5	123	(business adj rule) same (source adj code)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:42
S6	348	(business adj rule) with attribute	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:42
S7	22	(business adj rule) with attribute with code	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/23 10:42

## EAST Search History

S8	49	(US-20050204340-\$ or US-20020147726-\$ or US-20030097363-\$ or US-20030220926-\$ or US-20040181500-\$ or US-20040260667-\$ or US-20050149459-\$ or US-20050234976-\$ or US-20060242194-\$ or US-20020049961-\$ or US-20030084428-\$ or US-20040030421-\$ or US-20040085357-\$ or US-20040088195-\$ or US-20040088196-\$ or US-20040088197-\$ or US-20040088198-\$ or US-20040088199-\$ or US-20020156686-\$).did. or (US-6574631-\$ or US-6523172-\$ or US-5210868-\$ or US-6249905-\$ or US-6965887-\$ or US-7062478-\$ or US-7188091-\$ or US-5642410-\$ or US-6389588-\$ or US-5233513-\$ or US-5297150-\$ or US-5495567-\$ or US-5758032-\$ or US-5813003-\$ or US-5815713-\$ or US-5911043-\$ or US-5924077-\$ or US-6006193-\$ or US-6016477-\$ or US-6061682-\$ or US-6263498-\$ or US-6292830-\$ or US-6341369-\$ or US-6450407-\$ or US-6473748-\$ or US-6484158-\$).did. or (US-6560592-\$ or US-6637648-\$ or US-6745382-\$ or US-6751657-\$).did.	US-PGPUB; USPAT	OR	ON	2007/05/24 10:39
S9	2	((("6389588") or ("6654953"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/23 10:56
S10	256	map with code with (rule specification)	US-PGPUB; USPAT	OR	ON	2007/05/24 10:43
S11	90	(717/123).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/24 10:40
S12	3	S10 and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 10:40
S13	47	((embed\$4 insert\$3) with (comment attribute)) same (code with (rule specification))	US-PGPUB; USPAT	OR	ON	2007/05/24 11:22

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S14	152	business adj rule with specification	US-PGPUB; USPAT	OR	ON	2007/05/24 14:13
S15	91	(validat\$3 verif\$7) with (specification comment) with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:14
S16	160	(validat\$3 verif\$7) with (specification rule) with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:14
S17	77	(validat\$3 verif\$7) with rule with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:15
S18	38	(validat\$3 verif\$7) with attribute with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:20
S19	3	(validat\$3 verif\$7) with attribute with specification with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:22
S20	87	(validat\$3 verif\$7) with specification with (compil\$5)	US-PGPUB; USPAT	OR	ON	2007/05/24 14:29
S21	0	(validat\$3 verif\$7) with specification with on\$1demand	US-PGPUB; USPAT	OR	ON	2007/05/24 14:29
S22	142	(validat\$3 verif\$7) with on\$1demand	US-PGPUB; USPAT	OR	ON	2007/05/24 14:29
S23	12	(validat\$3 verif\$7) with code with on\$1demand	US-PGPUB; USPAT	OR	ON	2007/05/24 14:31
S24	12	(validat\$3 verif\$7) with code with (on\$1demand (on adj demand))	US-PGPUB; USPAT	OR	ON	2007/05/24 15:10
S25	376516	(validat\$3 verif\$7) with code button	US-PGPUB; USPAT	OR	ON	2007/05/24 15:16
S26	239	(validat\$3 verif\$7) with code with button	US-PGPUB; USPAT	OR	ON	2007/05/24 15:15
S27	90	(717/123).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/24 15:10
S28	0	S26 and S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 15:10
S29	7	(validat\$3 verif\$7) with code with button with click	US-PGPUB; USPAT	OR	ON	2007/05/24 15:12
S30	1048	(validat\$3 verif\$7) with code with command	US-PGPUB; USPAT	OR	ON	2007/05/24 15:12
S31	0	S27 and S30	US-PGPUB; USPAT	OR	ON	2007/05/24 15:14
S32	324	(717/126).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/24 15:14

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S33	4	S30 and S32	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 15:14
S34	1	S26 and S32	US-PGPUB; USPAT	OR	ON	2007/05/24 15:15
S35	4680	(validat\$3 verif\$7) with button	US-PGPUB; USPAT	OR	ON	2007/05/24 15:16
S36	10	on\$1demand and S32	US-PGPUB; USPAT	OR	ON	2007/05/24 15:37
S37	63	specification with carrying with code	US-PGPUB; USPAT	OR	ON	2007/05/24 15:38
S38	2	specification adj carrying adj code	US-PGPUB; USPAT	OR	ON	2007/05/24 16:13
S39	2	specification with embed\$4 with object adj code	US-PGPUB; USPAT	OR	ON	2007/05/24 16:30
S40	108	IDE with plug\$1in	US-PGPUB; USPAT	OR	ON	2007/05/24 16:31
S41	608	(717/110-113).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/24 16:32
S42	2029	(717/106-113).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/24 16:32
S43	11	S40 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/24 16:32
S44	726	attribute with reflection	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:41
S45	90	(717/123).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/05/25 08:34
S46	2	S44 and S45	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:41

## EAST Search History

S47	2070	attribute with verif\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:41
S48	0	attribute with reflection with verif\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:41
S49	103	attribute with reflection with object	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/05/25 09:42


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# 1 [Incorporating business requirements and constraints in database conceptual models](#)

Khâled M. Khan, Mahesha Kapurubandara, Urvashi Chadha

 January 2004 **Proceedings of the first Asian-Pacific conference on Conceptual modelling - Volume 31 APCCM '04**

Publisher: Australian Computer Society, Inc.

 Full text available: pdf(151.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Entity relationship (ER) approach is predominantly used for conceptual modelling of database systems in terms of entities and their relationships. The approach does not provide sufficient support for incorporating business constraints and their impact on the entity relationships, thus leaving a gap between the requirements elicitation and database implementation. This paper makes an attempt to bridge this gap by proposing a construct that would enable the system architects to illustrate business ...

**Keywords:** attribute-oriented constraints, business rules, database conceptual modelling, entity-relationship approach

# 2 [Use case and business rules: styles of documenting business rules in use cases](#)

Ed Anderson, Mike Bradley, Rosemary Brinko

 January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum) OOPSLA '97**

Publisher: ACM Press

 Full text available: pdf(217.45 KB) Additional Information: [full citation](#), [index terms](#)

# 3 [Personalizing E-commerce applications with on-line heuristic decision making](#)

Vinod Anupam, Richard Hull, Bharat Kumar

 April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01**

Publisher: ACM Press

 Full text available: pdf(261.12 KB) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

**Keywords:** B2C E-commerce, personalization, pro-active intervention, vortex rules system


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### 1 [Use case and business rules: styles of documenting business rules in use cases](#)



Ed Anderson, Mike Bradley, Rosemary Brinko

 January 1997 **Addendum to the 1997 ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications (Addendum) OOPSLA '97**

Publisher: ACM Press

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### 2 [Identifying software components from process requirements using domain model and object libraries](#)



Vijayan Sugumaran, Mohan Tanniru, Veda C. Storey

 January 1999 **Proceeding of the 20th international conference on Information Systems ICIS '99**

Publisher: Association for Information Systems

 Full text available: pdf(302.07 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 3 [Database and digital library technologies: Elicitation and conversion of hidden objects and restrictions in a database schema](#)



Laura C. Rivero, Jorge H. Doorn, Viviana E. Ferragagine

 March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**

Publisher: ACM Press

 Full text available: pdf(627.49 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mapping a database schema from one model into another, with a higher semantic capacity, is a current research subject with application in several development fields, such as schema integration and translation, migration from legacy systems and reengineering of poor quality or no-longer accurate data models. Inclusion dependencies are one of the most important concepts in relational databases and they are the key to perform some reengineering of database schemas. Referential integrity restriction ...

**Keywords:** database conceptual schema reengineering, denormalization, pure inclusion dependencies